## **CLAIM AMENDMENTS**

## Claim Amendment Summary

## Claims pending

- Before this Amendment: Claims 1, 4-17 and 19-34.
- After this Amendment: Claims 1, 4-17, and 19-25.

Non-Elected, Canceled, or Withdrawn claims: Claims 2, 3, 18 and 26-34.

Amended claims: Claims 1, 4-7, 17 and 23.

New claims: None.

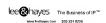
## Claims:

 (Currently Amended) A programming interface embodied on one or more computer readable media having computer-executable instructions for performing steps comprising:

generating graphical objects using a first group of services;

formatting content using a second group of services;

creating components of the graphical objects using a third group of services;



binding elements to data sources, data source classes, and data specific

implementations of data collections using a fourth group of services, wherein the

fourth group of services further handle exceptions in data entry;

using a common markup language to map classes and properties specified

in the markup language to an instantiated tree of objects across the first group

of services, the second group of services [[and]] the third group of services, and

the fourth group of services; and

integrating the first group of services, the second group of service

services, [[and]] the third group of services, and the fourth group of services

using a consistent programming model and consistent services across the three

service groups.

2. (Canceled)

3. (Canceled)

4. (Currently Amended) A programming interface as recited in claim

1, wherein the first group of services, the second group of services, [[and]] the

third group of services, and the fourth group of services share a common event

system.

Serial No.: 10/693,854 Atty Docket No.: MS1-1780US Atty/Agent: Jason F. Lindh

lee@hayes The Business of IP 14 www.teehayes.com 500 324 9258

5. (Currently Amended) A programming interface as recited in claim

1, wherein the first group of services, the second group of services, [[and]] the

third group of services, and the fourth group of services share a common

property definition system.

6. (Currently Amended) A programming interface as recited in claim

1, wherein the first group of services, the second group of services, [[and]] the

third group of services, and the fourth group of services share a common input

paradigm.

7. (Currently Amended) A programming interface as recited in claim

1, wherein the first group of services, the second group of services, [[and]] the

third group of services, and the fourth group of services share a common system

for nesting elements associated with a particular group of services within

elements associated with another group of services.

8. (Original) A programming interface as recited in claim 1, wherein

the first group of services includes a service that determines an appearance of

the graphical objects.

Serial No.: 10/693,854
Atty Docket No.: MS1-1780US
Atty/Agent: Jason F. Lindh
RESPONSE TO FINAL OFFICE ACTION

.



9. (Original) A programming interface as recited in claim 1, wherein the first group of services includes a service that determines a behavior of the

graphical objects.

10. A programming interface as recited in claim 1, wherein

the first group of services includes a service that determines an arrangement of

the graphical objects.

A programming interface as recited in claim 1, wherein 11. (Original)

the first group of services includes a plurality of nested elements that define the

graphical objects.

12. (Original) A programming interface as recited in claim 1, wherein

the graphical objects are comprised of one or more elements defined by vector

graphics.

A programming interface as recited in claim 1, wherein 13. (Original)

the first group of services can define window properties in a markup language

without launching a new window.

lee@hayes The Business of IP\*

14. (Original) A programming interface as recited in claim 1, wherein the first group of services generate a user interface containing a plurality of

graphical objects.

15. (Original) A programming interface as recited in claim 1, wherein

the second group of services arrange the graphical objects.

16. (Original) A software architecture comprising the programming

interface as recited in claim 1.

17. (Currently Amended) An application program interface embodied

on one or more computer readable media having computer-executable

instructions for performing steps comprising:

generating graphical objects using a first group of services;

formatting content using a second group of services;

creating components of the graphical objects using a third group of

services;

binding elements to data sources, data source classes, and data specific

implementations of data collections using a fourth group of services, wherein the

fourth group of services further handle exceptions in data entry;

Serial No.: 10/693,854 Atty Docket No.: MS1-1780US Atty/Agent: Jason F. Lindh RESPONSE TO FINAL OFFICE ACTION lee@hayes The Business of IP THE WINNER STREET STRE

7

wherein the first group of services, the second group of services, [[and]]

the third group of services, and the fourth group of services are integrated via:

sharing a common programming model; and

using a common markup language across the three services to map

classes and properties specified in the markup language to an instantiated tree

of objects.

18. (Canceled)

19. (Original) An application program interface as recited in claim 17.

wherein the third group of services includes services to generate geometric

shapes.

20. (Original) An application program interface as recited in claim 17,

wherein the second group of services includes arranging a plurality of data

elements.

21. (Original) An application program interface as recited in claim 17.

wherein the first group of services includes:

a service that determines an appearance of a graphical object; and

a service that determines a behavior of the graphical object.

Serial No.: 10/693.854 Atty Docket No.: MS1-1780US Attv/Agent: Jason F. Lindh RESPONSE TO FINAL OFFICE ACTION

lee@haves The Business of IP™

22. (Original) An application program interface as recited in claim 17,

wherein the first group of services includes a service that defines window

properties in a markup language without launching a new window.

23. (Currently Amended) A computer system including one or more

microprocessors and one or more software programs, the one or more software

programs utilizing a programming interface to request services from an operating

system, the programming interface including separate commands to request

services consisting of the following groups of services:

a first group of services for generating graphical objects; [[and]]

a second group of services for creating components of the graphical

objects; and

a third group of services that bind elements to data sources, data source

classes, and data specific implementations of data collections, wherein the third

group of services further handle exceptions in data entry:

the first group of services, [[and]] the second group of services, and the

third group of services are integrated by sharing a common programming model,

consistent services and using a common markup language to map classes and

properties specified in the markup language to an instantiated tree of objects

across the first, [[and]] second, and third group of services.

Serial No.: 10/693.854 Atty Docket No.: MS1-1780US Atty/Agent: Jason F. Lindh RESPONSE TO FINAL OFFICE ACTION

24. (Original) A computer system as recited in claim 23, wherein the first group of services includes:

a service for defining an appearance of the graphical objects; and a service for defining an arrangement of the graphical objects.

25. (Original) A computer system as recited in claim 23, wherein the second group of services includes services to generate a plurality of geometric shapes.

26 - 34. (Canceled)